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IMCB's SARS-CoV RT-PCR Amplification Sites

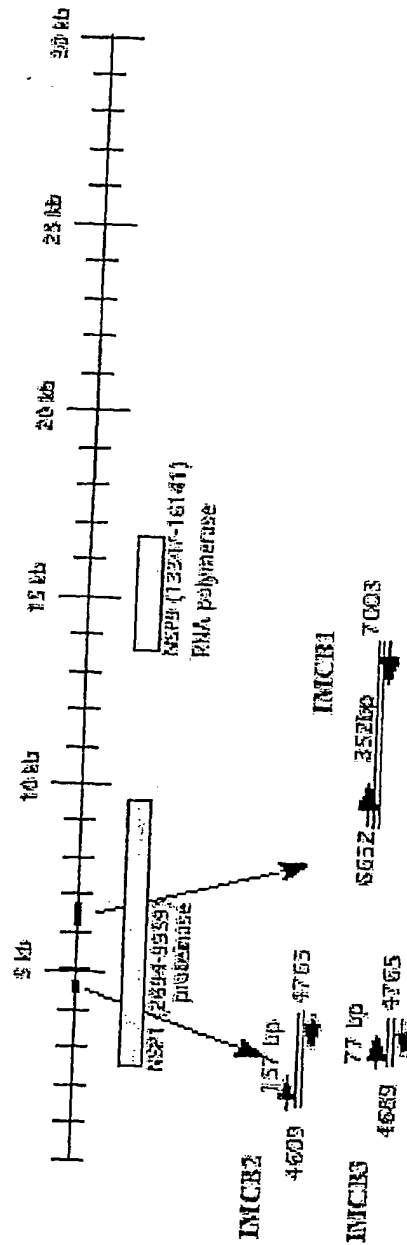


Figure 1

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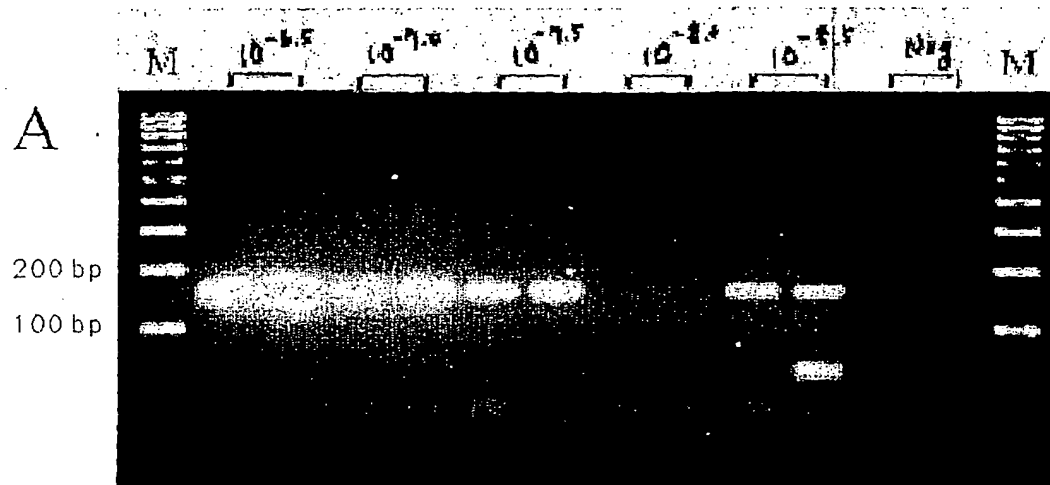
GGCGTAGTGT CAGTATCATC ACCAGATGCT GTTACTACAT ATAATGGATA 50  
CGGCATCACA GTCATAGTAG TGGTCTACGA CAATGATGTA TATTACCTAT  
IMCB 3 Upper Primer  
CCTCACTTCG TCATCANAGA CATCTGAGGA GCACTTTGTA GAAACAGTTT 100  
GGAGTGAAGC AGTAGTTTCT GTAGACTCCT CGTGAAACAT CTTTGTCAAA  
IMCB 3 TaqMan Probe sequence  
CTTTGGGCGG GCGTACAGAG GGTGTCCT ATTCAGGACA GCGTACAGAG 150  
GAAACCGAGG GGTGTCCT GGTGTCCT TATGTCCTGT CGCATGTCTC  
template sequence  
IMCB 3 Lower Primer  
TTAGGTG 157  
CATCCAC

Figure 2

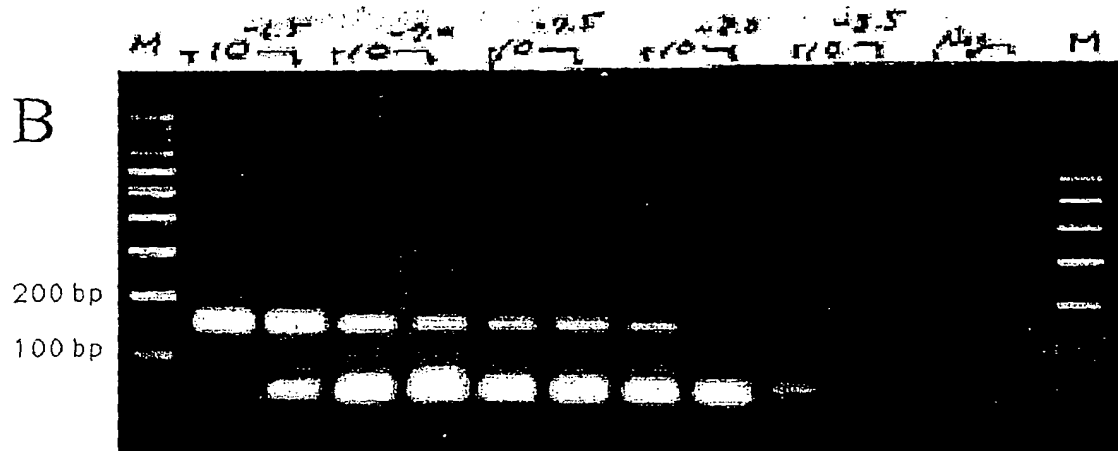
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## SARS-CoV One-Step RT-PCR with IMCB 2 Primer Pair



Sensitivity12-4-27.jpg, 42 cycles



Sensitivity16-2-191.jpg, 42 cycles

rxn=5 ul, copies measured by ARTUS (and theoretical value)\*

10(-6.0)=26.1 copies/rxn

10(-6.5)=12.6 copies/rxn, (8.2 copies/rxn)

10(-7.0)=1.96 copies/rxn, (2.6 copies/rxn)

10(-7.5)= 2.0 copies/rxn, (0.8 copies/rxn)

10(-8.0)= 0.07 copies/rxn, (0.25 copies/rxn)

10(-8.5)= Not detected, (0.08 copies/rxn)

\*10(-6.0) is serially diluted by 10(-0.5) step.

Figure 3

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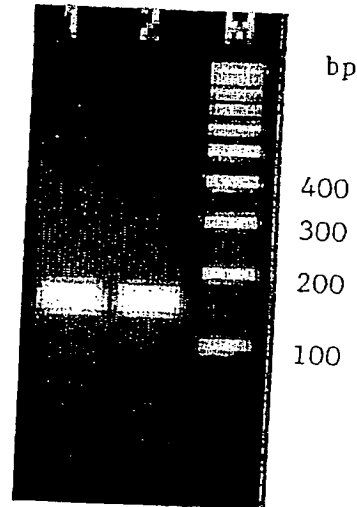
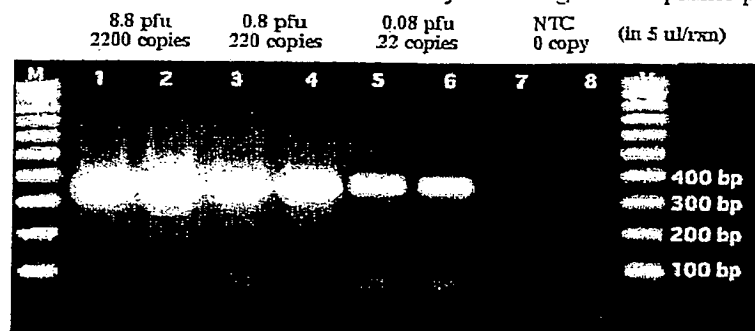


Figure 3C

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## SARS CoV RT-PCR Detection Sensitivity Test using IMCB1 primer pair



L1-2: 8.8 pfu, L3-4: 0.8 pfu, L5-6: 0.08 pfu, L7-8: NTC in 5 ul sample. @1 pfu=250 copies

Fig. 4A

## SARS CoV RT-PCR Detection Sensitivity Test using IMCB1 primer pair

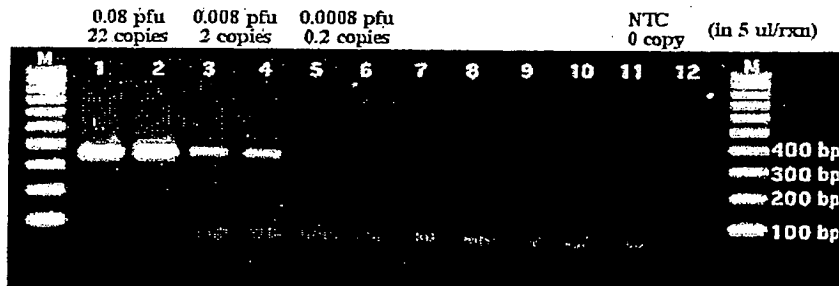
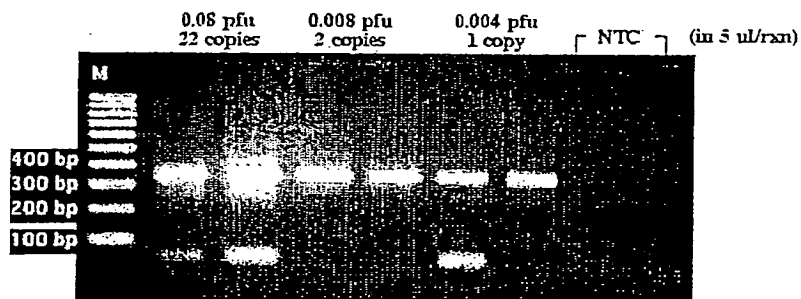
L1-2: 0.08 pfu, L3-4: 0.008 pfu, L5-6: 0.0008 pfu, L7-8:  $8.8 \times 10^{-4}$ , L9-10:  $8.8 \times 10^{-5}$ , L11-12: NTC, in 5 ul sample. @1 pfu=250 copies

Fig. 4B

## SARS CoV RT-PCR Detection Sensitivity Test using IMCB1 primer pair



L1-2: 0.08 pfu, L3-4: 0.008 pfu, L5-6: 0.004 pfu, L7-8 NTC, in 5 ul sample. @1 pfu=250 copies

Fig. 4C

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